Q7n485 photorhabdu Q7n1b0 gloeobacter G74g43 geobacter s G8ydz8 brucella me Q8bbt4 homo sapien Q95m9 homo sapien Q95m9 homo sapien Q97m8 deinococcus Q434 notophthalm G6ny60 brachydanio Q9py92 brachydanio Q9py92 brachydanio Q9py92 brachydanio Q9py92 brachydanio Q9py92 brachydanio

us-10-080-100-46.rup

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STRAIN—CC 7421,

WEDLINB=22977040; PubWed=14621292;

WEDLINB=22977040; PubWed=14621292;

WASHAMURA Y., Kaneko T., Sato S., Mimuro M., Miyashita H., Tsuchiya T.,

A Rakamura Y., Kaneko T., Sato S., Mimuro M., Miyashita H., Tsuchiya T.,

A Rakeuchi C., Yamada M., Tabata S.;

A Takeuchi C., Yamada M., Tabata S.;

B Conplete genome structure of Gloeobacter violaceus PCC 7421, a

A Takeuchi C., Yamada M., Tabata S.;

B Conforting M., Tabata S.;

A Takeuchi C., Yamada M., Tabata S.;

B Conforting M., Tabata S.;

B Taker M., Tabata M., Tabata M., Tabata S.;

B Taker M., Tabata M., Tabata M., Tabata S.;

B Taker M., Tabata M., Tabata S.;

B Taker M., Tabata M., Tabata S.;

B Tabata M., Tabata M., Tabata M., Tabata T.,

B Taker M., Tabata M., Tabata M., Tabata M., Tabata T.,

B Taker M., Tabata M., Tab
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   42485 MW; 28EC63AC18B981CE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gloeobacter violacēus.
Bacteria; Cyanobacteria; Chroococcales; Gloeobacter.
NCBI_TaxID=33072;
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Q72XŪ4
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Q8YDZ8
Q8TBT4
Q96E58
Q9GZM9
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Q6NY60
Q9PV92
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TIGRFAMB; TIGR01730; RND_mfp; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (TrEMBLrel. 26, (TrEMBLrel. 26, 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OrderedLocusNames=g110875;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
PRELIMINARY;
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QRANLRA 185
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SEQUENCE 393 AA
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salmonella
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                      GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
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06CH54
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09S3U2
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07FIB4
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09SQH1
08PQY7
TRPA_BUCBP
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1: uniprot_sprot:*
2: uniprot_trembl:*
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Maximum DB seq length: 2000000000
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Match Length DB
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -!- CATALYTIC ACTIVITY: L-serine + 1-(indol-3-yl)glycerol 3-phosphate = E-tryptophan + glyceraldehyde 3-phosphate. = E-tryptophan + glyceraldehyde 3-phosphate. = PATHWAY: Tryptophan biosynthesis; fifth (last) step. = -i- SUBUNIT: Tetramer of two alpha and two beta chains (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         compositions.";
Mol. Biol. Evol. 16:1586-1598(1999).
-!- FUNCTION: The alpha subunit is responsible for the aldol cleavage
of indoleglycerol phosphate to indole and glyceraldehyde 3-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
MEDLINE=20022990; Pubmed=10555290;
Clark M.A., Moran N.A., Baumann P.;
"Sequence evolution in bacterial endosymbionts having extreme base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Buchnera aphidicola (subsp. Melaphis rhois).
Bacteria, Proteobacteria, Gammaproteobacteria, Enterobacteriales,
                                                                                               Proton acceptor (By similarity).
Proton acceptor (By similarity).
pbD3E73C4CD81CCD CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Proton acceptor (By similarity). Proton acceptor (By similarity). 9FBECE911836C3EC CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q9RQ33;
28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
26-UUL-2004 (Rel. 44, Last annotation update)
Tryptophan synthase alpha chain (EC 4.2.1.20)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   270 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         similarity).
-!- SIMILARITY: Belongs to the trpA family.
                                                                                                                                                                                                                                                1; Mismatches
ProDom; PD001535; Trp_synthaseA; 1.
TIGRFAMS; TIGROGG2; trps; 1.
PROSTITE; PS00167; TRP_SYNTHASE_ALPHA; 1.
Lyase; Tryttophan biosynthesis.
ACT SITE 49 49 49
ACT SITE 60 60 Proton accept ACT SITE 60 80 Proton accept SEQUENCE 270 AA; 30442 MW; DBDJ873C46
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Prodom; PD001535; Trp synthaseA; 1.
TIGRPAMs; TIGR0262; Trp3; 1.
PROSTIT; PS00167; TRP.SYNTHASE ALPHA; 1.
Lyase; Tryptophan biosynthesis.
                                                                                                                                                                                              90.9%; Score 30;
85.7%; Pred. No.
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HAMAP; MF 00131; -; 1.
InterPro; IPR001000; FMN enzyme. InterPro; IPR011060; RibP bind barre
InterPro; IPR011060; RibP bind barre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AF132318; AAF14255.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Enterobacteriaceae, Buchnera.
NCBI_TaxID=118103;
                                                                                                                                                                                                                     Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
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QKANLRA 71
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Best Local Similarity
Matches 6; Conserv
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SEQUENCE
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"The endosymbiont (Buchnera) of the aphid Diuraphis noxia contains all
the genes of the tryptophan biosynthetic pathway.";
Curr. Microbiol. 37:86-59(1998).
-1- FUNCTION: The alpha subunit is responsible for the aldol cleavage
of indoleglycerol phosphate to indole and glyceraldehyde 3-
                                                                                                                   MEDLINE=20450683; PubMed=10997877;
Magase T., Kikuno R., Nakayama M., Hirosawa M., Ohara O.;
Magase T., Kikuno R., Nakayama M., Hirosawa M., Ohara O.;
Prediction of the coding sequences of unidentified human genes.
XVII. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro.";
DNA Res. 7:273-281(2000).
EMBL, AB046844, BA13450.1;
Genew, HGNC117830; GPRL07.
InterPro, IPR009637; Lung 77TM_recept.
InterPro, IPR009637; Lung 77TM_recept.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATALYTIC ACTIVITY: L-serine + 1-(indol-3-yl)glycerol 3-phosphate = L-tryptophan + glyceraldehyde 3-phosphate.
PATHWAY: Tryptophan biosynthesis; fifth (last) step.
SUBUNIT: Tetramer of two alpha and two beta chains (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Buchnera aphidicola (subsp. Diuraphis noxia).
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Buchnera.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 33; DB 2; Length 599; 100.0%; Pred. No. 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                   599 AA; 66906 MW; DC2AD69FAE078500 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           30-MAY-2000 (Rel. 39, Created)
30-MAY-2000 (Rel. 39, Last sequence update)
20-UU-2004 (Rel. 44, Last annotation update)
Tryptophan synthase alpha chain (EC 4.2.1.20)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT; 270 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           similarity).
SIMILARITY: Belongs to the trpA family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HAMAP, MF_00131; -; 1.
InterPro; IPR013009; FNN enzyme.
InterPro; IPR011060; RibP_bind barrel.
InterPro; IPR002028; Trp_synthaseA.
Pfam; PF00290; Trp_syntA; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=98290710; PubMed=9625791;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AF038565; AAC27736.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 100.
Les 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         443 QRANLRA 449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P00929; 2WSY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 ORANLRA 7
                                                                                               SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                          NCBI_TaxiD=9606;
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068429;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=trpA;
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Gaps

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98880
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$\frac{1}{2}$\frac{1}{2}$\frac
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A Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla B.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.M., Beyne E., Blackaten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
A Despons L., Fabre B., Fairhead C., Ferry-Dumazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
A Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.F., Straub M.L., Suleau A.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
Bouchier C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
Mincker P., Souciet J.L.;
"Genome evolution in yeasts.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota, Fungi, Ascomycota, Saccharomycotina, Saccharomycetes, Saccharomycetales, Dipodascaceae, Yarrowia.
NCBI_TaxID=284591;
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Bacteria, Proteobacteria, Alphaproteobacteria, Sphingomonadales,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Genoscope;
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; CR382127; CAG83937.1; -.
SEQUENCE 271 AA; 29679 MW; B116E396233B4D94 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OL-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Tryptophan synthetase alpha subunit.
                                                                                                                                                                                                                                                                                                                            271 AA
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                                                                                                                                                                                                                                                                                                                                                                                                          Created)
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NCBI_TaxID=120044;
                                                                                                                                                                                                                                                                                                                                                                                                 25-OCT-2004 (TrEMBLrel. 28, 25-OCT-2004 (TrEMBLrel. 28, 25-OCT-2004 (TrEMBLrel. 28,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORFNames=YALIOA12221g;
Yarrowia lipolytica CLIB99.
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hes 6; Conservative
                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRELIMINARY;
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STRAIN=ATCC 29192;
Eddy C.K., Ingram L.O.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nature 430:35-44(2004)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 123 QRANLRS 129
                                                                             |:|||||
65 OKANLRA 71
                             1 ORANLRA 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 ORANLRA 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN=CLIB99;
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                                                                                                                                                                                                                                                                                                                                                                                                                                            25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genolevures;
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                                                                                                                                                                                                                                                                                                                    Q6CH54
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OGCHS4

AAC OGCHS4

DT 25-00

CR BERA

OCC BER
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298312
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STRAIN=DC3000;

X MEDLINE=22834015; PubMed=12928499; DOI=10.1073/pnas.1731982100;

A Buell C.K., Joardar V., Lindeberg M., Selengut U., Paulsen I.T.,

A Gwinn M.L., Dodson R.J., Denoy R.T., Durkin A.S., Kolonay J.F.,

A Madupu R., Davidsen T.M., Zafar N., Zhou L., Liu J., Yuan Q.,

Khouri H.M., Fedorova N.B., Tran B., Russell D., Berry K.J.,

A Khouri H.M., Fedorova N.B., Tran B., Russell D., Berry K.J.,

A Deng W.-L., Ramos A.R., Alfano J.R., Cartinhour S., Chatterjee A.K.,

Bender C.L., White O., Fraser C. Collmer A.,

The complete genome sequence of the Arabidopsis and tomato pathogen

T Pseudomonas syringae pv. tomato DC3000.";

Proc. Natl. Acad. Sci. U.S.A. 100:10181-10186(2003).

REMBL, ABOL6858; AAOS4326.1; -.
Submitted (JUL-1999) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: The alpha subunit is responsible for the aldol cleavage of indoleglycerol apparet to indole and glyceraldehyde 3-phosphate (By similarity).
-!- CATALYTIC ACTIVITY: L-serine + 1-(indol-3-yl)glycerol 3-phosphate = L-tryptophan + glyceraldehyde 3-phosphate.
-!- PATHWAY: Tryptophan blosynthesis; fifth (last) step.
-!- SUBUNIT: Tetramer of two alpha and two beta chains (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                           GO; GO:0016829; F:lyase activity; IEA.
GO; GO:0004834; F:lyase activity; IEA.
GO; GO:0001682; F:tryptophan synthase activity; IEA.
GO; GO:000162; F:tryptophan biosynthesis; IEA.
InterPro; IPR011060; RibP bind barrel.
InterPro; IPR02028; Trp_SynthaseA.
InterPro; IPR002028; Trp_SynthaseA.
INTERPAMS; TIGR0262; Trp_SynthaseA.
INTERPAMS; TIGR0262; Trp_SynthaseA.
INTERPAMS; TIGR0262; Trp_SynthaseA.
Amino-acid biosynthesis; Aromatic amino acid biosynthesis; Lyase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pseudomonas syringae (pv. tomato).
Bacteria, Proteobacteria, Gammaproteobacteria, Pseudomonadales,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Iryptophan biosynthesis.
SEQUENCE 274 AA; 28840 MW; A1971BB93D29A324 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2004 (TrEMBLrel. 26, Last annotation update)
Tonal-dependent siderophore receptor, putative.
OrderedLocusNames=PSPT00784;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GO; GO:0006810; P:transport; IEA.
InterPro; IPR010917; TonB recept_C.
PROSITE; PS01156; TONB DEPENDENT_REC_2; UNKNOWN_1.
Complete proteome; Receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90.9%; Score 30; DB 2;
85.7%; Pred. No. 67;
ive 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GO:0019867; C:outer membrane; IEA.
GO:0004872; F:receptor activity; IEA.
GO:0005115; F:transporter activity; IEA.
GO:0006810; P:transport; IEA.
                                                                                                                                                                                                                                                                                          similarity).
--- SIMILARITY: Belongs to the trpA family.
EMBL; AFT73835; AAD51339.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 85.7
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
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Q7PIB4;
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A Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.M., Beyne E., Bleykasten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
Bospons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
A Kerrest A., Kosull R., Lemaire M., Lesur I., Maller H.,
Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellonz S., Potier S., Richard G.F., Straub M.L., Suleau A.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof E., Mirth B.,
Zenlou-Meyer M., Zivanovic I., Bolotin-Pukuhara M., Thierry A.,
Mincker P., Soudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
Mincker P., Souder J.L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genoscope;
Submitted (ULL-2004) to the EMBL/GenBank/DDBJ databases.
Submitted (ULL-2004) to the EMBL/GenBank/DDBJ databases.
Submitted (ULL-2004) to the Ser/Thr protein kinase family.
EMBL; CR382139; CAG90216.1;
CAG90216.1
                                                                                 Gaps
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PROSITE; PS50011; PROTEIN KINASE DOM; 1.

PROSITE; PS00108; PROTEIN KINASE ST; 1.

PROSITE; PS00138; SUBTILASE SER; UNKNOWN 1.

ATP-binding; Kinase; Desrine/threonine-protein kinase; Transferase.

SEQUENCE 885 AA; 98796 MW; 04A51DF413A54D3E CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Debaryomyces
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                                                                                                                                                                                                                                                                                                                              25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Similar to CA1375|IPF7158 Candida albicans IPF7158 putative
                                      Length 656;
                                                                               0; Indels
72591 MW; 2238CC4E57A63008 CRC64;
                                      90.9%; Score 30; DB 2; ]
85.7%; Pred. No. 1.7e+02;
                                                                               1; Mismatches
                                                                                                                                                                                                                                                                                                           25-OCT-2004 (TrEMBLrel, 28, Created)
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                                                                                                                                                                                                                                                                                                                                                                                                                ORFNames=DEHA0G05544g;
Debaryomyces hansenii CBS767.
                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                 serine/threonine kinase.
                                                                                                                                                                                                                                                                      PRELIMINARY;
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                 Query Match
Best Local Similarity
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566 QKANLRA 572
656 AA;
                                                                                                                        1 QRANLRA 7
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SEQUENCE
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ОбВЈ62;
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GO; GO:0016624; F:oxidoreductase activity, acting on the alde. ..; IEA.
GO; GO:0008152; P:metabolism; IEA.
InterPro; IPR001017; Dehydrogenase_E1.
InterPro; IPR005475; Transketolase_CR.
Pfam; PF00576; E1_dh; 1.
PF005779; Transket_pyr; 1.
                                                           Gaps
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Bukaryota, Metazoa, Arthropoda, Hexapoda, Insecta, Pterygota,
Neoptera, Endopterygota, Diptera, Nematocera, Culicoidea, Anopheles.
NCBI_TaxID=180454;
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25-0CT-2004 (TERMELrel. 28, Created)
25-0CT-2004 (TERMELrel. 28, Last sequence update)
25-0CT-2004 (TERMELrel. 28, Last annotation update)
28 protein 2.
Arachis hypogaea (Peanut).
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosidieurosids I; Fabales; Fabaceae; Papilionoideae; Aeschynomeneae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Anotheles Genome Sequencing Consortium,
Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which is
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Score 30; DB 2; Length 885;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 90.9%; Score 30; DB 2; Length 101 Best Local Similarity 85.7%; Pred. No. 2.8e+02; Matches 6; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1018 AA; 114451 MW; F484BB19B8B93298 CRC64;
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                                                                                                                                                                                                                                                                                                                                                 01-MAR-2004 (TrEMBLrel. 26, Created)
01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
101-MAR-2004 (TrEMBLrel. 26, Last annotation update)
ENSANGE00000024991 (Fragment)
Name-ENSANGE0000019544;
                            Pred. No. 2.4e+02;
1; Mismatches 0
                                                                                                                                                                                                                                                                                                    PRT; 1018 AA.
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90.9%;
                                                        6, Conservative
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QRANLRS 485
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Query Match
Best Local Similarity
Matches 6; Conserv
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Best Local Similarity
                                                                                                             1 QRANLRA 7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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PRELIMINARY;
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                                                                                                                                                                                                                                            Pfam; PF00005; ABC
ProDom; PD000006; A
                                                                                                                       Q9YGA6; 1G29.
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Matches 6; Conserv
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C. STRAIN=2106 / ATCC 13902 / XV 101;

MEDLINE=2202145, PubMed=12024217; DOI=10.1038/417459a;

Ad Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R.,

A Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

A Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

A Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F.,

A Camarotte G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P.,

A Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

Paria J.B., Ferreira A.J.S., Ferreira R.C.C., Gruber A.,

Rormighieri B.F., Franco M.C., Greggio C.C., Gruber A.,

Ratsuyama A.M., Kishi L.T., Leite R.P., Lemos B.G.M., Lemos M.V.F.,

Locall B.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,

Martins E.C., Meddand M.A., Madeira A.M.B.N., Martinez-Rossi N.M.,

Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R.,
                                                                                                                                                                                                                                                                                                                                                                     STRAIN-Virginia; TISSUE-Seed;
MEDLINE-99406463; PubMed=10474031; DOI=10.1159/000024203;
Kleber-Janke T., Crameri R., Appenzeller U., Schlaak M., Becker W.M.;
Kleber-Janke T., Crameri R., Appenzeller U., Schlaak M., Becker W.M.;
"Selective cloning of peanut allergens, including profilin and 2S
albumins, by phage display technology.";
Int. Arch. Allergy immunol. 119:265-274(1999).
EMBL, AF091737; AAD56719.1;
InterPro; IPR003612; AAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
 Gaps
                                                                                                                                                                                                                                            Arachis hypogaea (Peanut).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
eurosids I; Fabales; Fabaceae; Papilionoideae; Aeschynomeneae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-0CT-2002 (TrEMBLrel. 22, Created)
01-0CT-2002 (TrEMBLrel. 22, Last sequence update)
01-0CT-2004 (TrEMBLrel. 26, Last annotation update)
ABC transporter ATP-binding protein.
Name=yehX; OrderedLocusNames=XAC0182;
Xanthomonas axonopodis (pv. citri).
Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87.9%; Score 29; DB 2; Length 160;
100.0%; Pred. No. 66;
.ive 0; Mismatches 0; Indels
 Indels
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SEQUENCE 160 AA; 18417 MW; 9F9E4CEE68808D4C CRC64;
                                                                                                                                                                                  Last sequence update)
Last annotation update)
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0; Mismatches
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NCBI_TaxID=92829;
                                                                                                                                                                                  01-MAY-2000 (TrEMBLrel. 13, 01-OCT-2002 (TrEMBLrel. 22,
                                                                                                                                                    09-SQH1;
01-MAY-2000 (TrEMBLrel. 13,
6; Conservative
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                                                                                                                                     PRELIMINARY;
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Best Local Similarity
Matches 6; Conserv
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                            1 QRANLR 6
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                                                        49 ORANLR
                                                                                                                                                                                                                 Allergen.
Name=Ara h 7;
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Q9SQH1
Matches
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                                                                                                                                                                                                                                                                                                                                                                             .; IEA
                                                                   Setubal J.C., Kitajima J.P.; "Comparison of the genomes of two Xanthomonas pathogens with differing host specificities.";
1.A., Tamura R.E., Teixeira B.C., Tezza R.I.D.,
Truffi D., Tsai S.M., White F.F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                      GO; GO:001602). C:membrane; IEA.
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:004265; F:ATPase activity, coupled to transmembrane m.
GO; GO:0000166; F:nucleonide binding; IEA.
GO; GO:0006810; P:transport; IEA.
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Bacteria, Proteobacteria, Betaproteobacteria, Burkholderiales,
Burkholderiaceae, Burkholderia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 251;
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PROSITE; PS50893; ABC_TRANSPORTER_2; 1.
ATP-binding; Complete protect processes ARP-binding; Complete processes ARP-binding; 245 AA; 26698 MW; B9BC33B69C48DS2D CRC64;
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SEQUENCE 251 AA; 27637 MW; C84954DD87784242 CRC64;
                                                                                                                                                                      Nature 417:459-463(2002).
-!- SIMILARITY: Belongs to the ABC transporter family.
EMBL; AE011642; AAM35074.1; -.
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25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Proc. Natl. Acad. Sci. U.S.A. 101:14240-14245(2004)
EMBL; BX571966; CAH39464.1; -.
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85.7%; Pred. No. 1.1e+02;
tive 1; Mismatches 0;
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85.7%; Pred. No. 1e+02;
ive 1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR003593; AAA ATPase.
InterPro; IPR003439; ABC_transporter.
Pfam: PF00005; ABC_tran; 1.
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Matches 6; Conservative
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136 RRANLRA 142

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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the Buropean Bioinformatics Institute. There are no restrictions on its use by non-profit institutions at long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or sand an email to license@lab-sib.ch).
                                                                                                                                                                                                                                   PubMed=12222265; DOI=10.1073/pnas.0235981100; van Ham R.C.H.J., Kamerbeek J., Palacios C., Rausell C., Abascal F., Bastolla U., Fernandez J.M., Jimenez L., Postigo M., Silva F.J., Tamames J., Viguera E., Latorre A., Valencia A., Moran F., Moya A.; Reductive genome evolution in Buchnera aphidicola."; Proc. Natl. Aced. Sci. U.S.A. 100:581-586(2003).
-: FUNCTION: The alpha subunit is responsible for the aldol cleavage of indoleglycerol phosphate to indole and glyceraldehyde 3-
                                                                                                                                                                                                                                                                                                                                                                                     phosphate.
--- CATALYTIC ACTIVITY: L-serine + 1-(indol-3-yl)glycerol 3-phosphate = L-tryptophan + glyceraldehyde 3-phosphate.
--- PATHWAY: Tryptophan blosynthesis; fifth (last) step.
--- SUBUNIT: Tetramer of two alpha and two beta chains (By
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                          Buchnera aphidicola (subsp. Baizongia pistaciae).
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Buchnera.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Complete proteome; Lyāse; Tryptophan biosynthesis.
ACT_SITE 50 50 Proton acceptor (By similarity)
ACT_SITE 61 61 Proton acceptor (By similarity)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87.9%; Score 29; DB 1; Length 269;
85.7%; Pred. No. 1.2e+02;
ive 1; Mismatches 0; Indels
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Last annotation update)
                                10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
Tryptophan synthase alpha chain (EC 4.2.1.20)
Name=trpA, OrderedLocusNames=bbp257;
269 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              similarity).
-!- SIMILARITY: Belongs to the trpA family.
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ProDom, PD001535; Trp synthaseA; 1.
TIGREAMs; TIGR00262; trpA; 1.
PROSITE; PS00167; TRP SYNTHASE ALPHA; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAMAP; MF 00131; -; 1.
InterPro; IPR003009; FMN enzyme.
InterPro; IPR011060; RibP_bind_barrel.
InterPro; IPR002028; Trp_synthaseA.
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(TrEMBLrel. 23, I
(TrEMBLrel. 24, I
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STANDARD;
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Matches 6; Conserv
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                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                 NCBI_TaxID=135842
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01-MAR-2003
01-MAR-2003
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                                                                                                Rhee J.H., Kim S.Y., Chung S.S., Kim J.J., Moon Y.H., Jeong H.,
Choy H.B.;
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                                Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
Vibrionaceae; Vibrio.
                                                                                                                                                                                                           Length 280;
                                                                                                                                                                                                                                     0; Indels
                                                                                                                               "Complete genome sequence of Vibrio vulnificus CMCP6.";
Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
EMBL; AE016809; AAO07260.1; -.
                                                                                                                                                                         Complete proteome.
SEQUENCE 280 AA; 31390 MW; 1E2C85898FE1C7A4 CRC64;
                                                                                                                                                                                                            Score 29; DB 2; Le
Pred. No. 1.2e+02;
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100.0%; Pred. No. ...
0; Mismatches
Outer membrane receptor protein.
OrderedLocusNames=VV20298;
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Best Local Similarity 100...
6; Conservative
                        Vibrio vulnificus.
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                                                                                   SEQUENCE FROM N.A.
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Search completed: April 21, 2005, 13:16:43 Job time : 62.8 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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- protein search, using sw model OM protein April 21, 2005, 12:51:51; Search time 13.1 Seconds (without alignments) 51.414 Million cell updates/sec Run on:

US-10-080-100-46 Title:

33 1 QRANLRA 7 Perfect score: Sequence:

Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMADIES

		de			SUMMAKIES	
Result No.	Score	Query Match	, Length	DB	. di	. Description
-	28	848	268	-	TSERAT	trontonhan avaithas
1 72	78	84.8			AB0653	tryptophan synthas
m	28	84.8	399	7	AD3512	hypothetical prote
4	28	84.8	8 483		G75392	
S	28	84.8	8 502		A23547	keratin, type II c
9	27	81.8	3 269	~	C84962	tryptophan synthas
7	27	81.8	m	~	T15869	hypothetical prote
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σ	27	81.8	m	7	S11998	finger protein odd
10	27	81.8	8 613	~	A82834	hypothetical prote
11	27	81.8	.		AG1269	threonyl-tRNA synt
12	27	81.8	8 640		A11631	threonyl-tRNA synt
13	27	81.8	_		D82511	3
14	27	81.8			B86423	hypothetical prote
12	27	81.8			S33653	probable serine/th
16	26	78.8			T34560	hypothetical prote
17	56	78.8			B56394	pyocin S3 immunity
18	26	78.8			A70459	hypothetical prote
19	26	78.8	8 268		D82232	~
20	26				H83325	hypothetical prote
21	26	78.8			D69379	chemotaxis histidi
22	26	78.8	8 303		B95182	conserved hypothet
23	26		8 303		E98049	
24	26	8	334	N	A44894	
25	26	•	33	~	I40040	ī
56	26	٠	m	~	I40159	flagellin - Borrel
27	26		m	H	FLLYB3	1
58	26	78.8	m	~	I40088	٠
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flagellin - Lyme d flagellin - Lyme d	flagellin - Lyme d flagellin - Lyme d	flagellin - Lyme d flagellin - Lyme d	flagellar filament	flagellin - Lyme d	ilagellin - Lyme d flagellin - Lyme d	•	flagellin - Borrel	probable sec14 cyt	hypothetical prote	hypothetical prote	histidinol-phospha
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30 31	32 33	3.4 3.5	36	37	9 G	40	41	42	43	44	45

ALIGNMENTS

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tryptophan synthase (EC 4.2.1.20) alpha chain - Salmonella typhimurium C;Species: Salmonella typhimuriuum C;Species: Salmonella typhimuriuum C;Species: Salmonella typhimuriuum C;Species: Salmonella typhimuriuum C;Accession: A3987; A92126; A01152 R;Nichols, B.P.; Yanofsky, C. R;Nichols, B.P.; Yanofsky, C. R;Nichols, B.P.; Yanofsky, C. A;Fitle: Nucleotide sequences of trpA of Salmonella typhimurium and Escherichia coli: an A;Reference number: A93837; MUID:80056671; PMID:388433

A; Accession: A93837

A;Molecule type: DNA A;Residues: 1-268 <NIC> A;Cross-references: UNIPROT:P00929; GB:V01376; NID:g47938; PIDN:CAA24666.1; PID:g47940

Rili, S.L.; Yanofsky, C. N. Biol. Chem. 248, 1830-1836, 1973 A;Title: Amino acid sequence studies with the tryptophan synthetase alpha chain of Salmo A;Reference number: A92126; MID:73149276; PMID:4571777 A;Contents: tentative sequence

A; Accession: A92126

A; Molecule type: protein A; Residues: 1-268 <LIS>

A, Gene: trpA

C; Complex: heterotetramer; two alpha and two beta chains

A, Description: catalyzes conversion of indoleglycerol phosphate and serine to tryptophan

A,Pathway: tryptophan biosynthesis A,Note: cofactor pyridoxal phosphate A,Note: last step in pathway

C;Superfamily: tryptophan synthase alpha chain; tryptophan synthase alpha chain homology Keywords: carbon-oxygen lyase; heterotetramer; hydro-lyase; tryptophan biosynthesis F;18-246/Domain: tryptophan synthase alpha chain homology <TRPA> F;49/Active site: Glu #status predicted

Gaps .. 0 84.8%; Score 28; DB 1; Length 268; 85.7%; Pred. No. 45; ive 0; Mismatches 1; Indels Conservative Query Match . Best Local Similarity Matches 6; Conserv

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ONANLRA 71 ~ ORANLRA g ð

RESULT 2 **AB0653**

tryptophan synthase alpha chain [imported] - Salmonella enterica subsp. enterica serovar C; Species: Salmonella enterica subsp. enterica serovar Typhi A;Note: this species has also been called Salmonella typhi C;Date: 09.Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002 C;Accession: AB0653 R;Parkhill, J.; Dougan, G.; James, K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Churcher,

a

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A;Map position: 1
C;Superfamily: Aspergillus alpha-amylase; alpha-amylase core homology
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ilarity 71.4%;
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hes 6; Conserv
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Best Local Similarity
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A; Residues: 1-502 < FRA>
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Clote: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
R/Miller O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, J.D.; Dodson, R.J.;
M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, T.; Zalewski, C.; Ma
S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
A; Eachence 286, 1571-1577, 1999
A; Faference number: A75250; MUID:20036896; PMID:10567266
A; Accession: G75392
A; 
   A:; O'GOTAGE, A:; O'GOTAGE, P.

S.; MOULE, S.; O'GOTAGE, P.

Nature 413, 848-852, 2001

A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; A;Title: Complete genome sequence of a multiple drug resistant Salmonella enterica seroy A;Reference number: ABOSO2; MUID:21534947; PMID:11677608

A;Stetus: preliminary

A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Accession: AD3512

R;DelVecchio, V.G.; Kapatral, V.; Redkar, R.J.; Patra, G.; Mujer, C.; Los, T.; Ivanova, T.; Mazur, M.; Goltsman, E.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghan, D.; Letess Proc. Natl. Acad. Sci. US.A. 99, 443-448, 2002
A;Title: The genome sequence of the facultative intracellular pathogen Brucella melitens A;Reference number: AD3252; PMID:11756688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Residues: 1-399 <KUR>
A;Cross-references: UNIPROT:Q8YDZ8; GB:AE008918; PIDN:AAL53263.1; PID:g17984144; GSPDB:G
A;Experimental source: strain 16M
                                                                                                                                                                                                                                                                                                                                                                                          A;Gene: STY1324
C;Superfamily: tryptophan synthase alpha chain; tryptophan synthase alpha chain homology
T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R.M.; Dowd, L.; White, N.; Farrar,
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A;Cross-references: GB:AL513382; PIDN:CAD08405.1; PID:g16502448; GSPDB:GN00176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein BMEI10022 [imported] - Brucella melitensis (strain 16M)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C'Species: Brucella melitensis
C;Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 09-Jul-2004
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85.7%; Pred. No. 45;
ive 0; Mismatches
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Pred. No.
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65 QNANLRA 71
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Best Local Similarity
Matches 6; Conserv
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A,Gene: BMEII0022
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Cryptophan synthase (EC 4.2.1.20) alpha chain [imported] - Buchnera sp. (strain APS)
C;Species: Buchnera sp.
C;Date: 0.02 Mar-2001 #sequence_revision 02-Mar-2001 #text_change 23-Mar-2001
C;Accession: C84962
R;Shigenobu, S.; Watanabe, H.; Hattori, M.; Sakaki, Y.; Ishikawa, H.
R;Shigenobu, S.; Watanabe, H.; Hattori, M.; Sakaki, Shikawa, H.
A;Title: Genome sequence of the endocellular bacterial symbiont of aphids Buchnera sp. A
A;Reference number: A84930; MUID:20445173; PMID:10993077
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C;Superfamily: tryptophan synthase alpha chain; tryptophan synthase alpha chain homology
C;Keywords: carbon-oxygen lyase; hydro-lyase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Gross-references: UNIPROT:P08776; GB:M13811; NID:g214555; PIDN:AAA49891.1; PID:g214556
C;Superfamily: cytoskeletal keratin
C;Keywords: coiled coil
                                                                                                                                                                                                                                                                                                                                                                                                                                                         RiFranz, J.K.; Franke, W.W.
Proc. Natl. Acad. Sci. U.S.A. 83, 6475-6479, 1986
A;Title: Clonning of cDNA and amino acid sequence of a cytokeratin expressed in oocytes
A;Reference number: A23547; MUID:86313601; PMID:2428034
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C;Species: Xenopus laevis (African clawed frog)
C;Date: 23-Aug-1987 #sequence_revision 23-Aug-1987 #text_change 09-Jul-2004
                                                                    Gaps
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      Length 483;
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C;Species: Caenorhabditis elegans
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84;
84.8%; Score 28; DB 2;
100.0%; Pred. No. 81;
tive 0; Mismatches
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Pred. No. 78;
2; Mismatches
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A; Cross-references: GB: AP000398; GSPDB:GN00144
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C;Accession: A82834
R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequen R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequen Astricle: The genome sequence of the plant pathogen Xylella fastidiosa.
A;Title: The genome sequence of the plant pathogen Xylella fastidiosa.
A;Reference number: A82515; MUID:20365717; PMID:10910347
A;Note: for a complete list of authors see reference number A59328 below
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A,Cross-references: UNIPROT:Q9PGS7, GB:AE003875, GB:AE003849, NID:g9105019, PIDN:AAF8303
A,Experimental source: strain 9a5c
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J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.B.; Laigr chado, M.A.; Madeira, H.M.F.; Marino, C.L.; Marques, M.V.; Martins, E.A.; Matchins, E.B.; Matchins, E.B.; Matchins, E.B.; Matchins, E.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A. Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de San, R.G.; Santelli, R.V.; Sawasak A.; Atuhores: da Silva, A.C.R.; da Silva, A.M.; Silva Jr., W.A.; da Silvai, Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; A. A.L.; A. A.L.; A. C. L.; A. C. L.; A. L.; A. L.; A. C. L.; A. L.; 
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Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Maok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, A;Flitle: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUD:21537279; PMID:11679669
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A;Molecule type: DNA
A;Residues: 1-640 <GLA>
A;Casidues: 1-640 <GLA>
A;Experimental source: strain EGD-e
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C;Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 09-Jul-2004
C;Accession: AG1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C,Species: Xylella fastidiosa
C,Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004
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Pred. No. 1.8e+02;
0; Mismatches 1;
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C; Superfamily: threonine-tRNA ligase
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Best Local Similarity 85.7
Matches 6; Conservative
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C;Species: Drosophila melanogaster
C;Species: Drosophila melanogaster
C;Species: Drosophila melanogaster
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Jul-1997
C;Accession: 311998
R;Coulter, D.E.; Swaykus, E.A.; Beran-Koehn, M.A.; Goldberg, D.; Wieschaus, E.; Schedl, A;Title: Molecular analysis of odd-skipped, a zinc finger encoding segmentation gene wit A;Reference number: 311998
A;Accession: S11998
A;Accession: S11998
A;Accession: S11998
A;Accession: S11998
A;Residues: 1-392 cCOU>
                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 1-318 <CON>
A;Cross-references: UNIPROT:Q09287; EMBL:U23177; NID:g726411; PID:g726415; PIDN:AAA64336
A;Experimental source: strain Bristol N2
Genetics
A;Gene: CESP:C56G2.3
A;Introns: 178/1
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A;Experimental source: strain 16M
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Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
Accession: T1S869
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Pred. No. 1.18+02;
1; Mismatches 0; Indels
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                    C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #tex C;Accession: T15869
R;Connell, M.
Submitted to the EMBL Data Library, March 1995
A;Description: The sequence of C. elegans cosmid C56G2.
A;Reference number: Z18420
A;Accession: T15869
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
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Best Local Similarity 71.4
Matches 5; Conservative
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226 RRANIRA 232
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Best Local Similarity
Matches 5; Conserv
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A; Residues: 1-390 < KUR>
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A;Gene: BMEII0380
A;Map position: II
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Cipecies: Arabidopsis thaliana (mouse-ear crees)
Cipate: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
Chin, C.W.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, Chin, C.W.; Hunghes, B.; Hulzar, L.
Nature 408, 816-820, 2000
A,Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.
C.A.; Li, J.H.; Li, Y.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali, Rizzo, M.; Rooney, T.; Rowley, D.; Sakmano, H.
A,Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A;Reference number: A86141; MuID:21016719; PMID:11130712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Cross-references: UNIPROT: Q9C8S4; GB:AE005172; NID:g10092454; PIDN:AAG12856.1; GSPDB:G:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pubble serine/threonine protein kinase (EC 2.7.1.-) - yeast (Saccharomyces cerevisiae)
NiAlternate names: protein YAL002; protein YAL017w; secretory protein SSP138
Cispecies Saccharomyces cervisiae
Cibate: 30-Sep-1993 #sequence revision 02-Aug-1994 #text_change 16-Aug-2004
CiAccession: S33653; S36717; S36732; JH0486
KrGlark, W.W.; Zhong, W.W.; Keng, T.; Storms, R.K.; Ouellette, B.F.F.; Barton, A.; Kabac; A;Title: The YAL017 gene on the left arm of chromosome I of Saccharomyces cerevisiae enc. A;Reference number: S33653; WUID:93311122; PMID:8322517
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AjCross-references: UNIPROT: P31374; EMBL: L05146
AjCross-references: UNIPROT: P31374; EMBL: L05146
ByOutlette, F.; Clark, M.W.; Keng, T.; Storms, R.K.; Zhong, W.; Zeng, B.; Fortin, N.; Despidente, P.; Clark, M.W.; Keng, T.; Storms, T.; Storms, W.; Zhong, W.; Zeng, B.; Fortin, N.; Despidente to the EMBL Data Library, January 1993
A, Description: Sequencing of Chromosome I from Saccharomyces cerevisiae: analysis of a 3 A, Reference number: S36711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Residues: 1-864,867-1358 <OUE>
A;Cross.references: EMBL:L05146; NID:g171851; PIDN:AAC04940.1; PID:g171858; MIPS:YAL017w
A;Clark, N.W.; Zhong, W.W.; Keng, T.; Storms, R.K.; Barton, A.; Kaback, D.B.; Bussey, H.
Yeast 8, 133-145, 1992
A;Title: Identification of a Saccharomyces cerevisiae homolog of the SNP2 transcriptiona
A;Reference number: S22266; MUID:92221690; PMID:1561836
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Pred. No. 3.3e+02;
1; Mismatches 0; Indels
                                                                                                              ypothetical protein T1P2.15 - Arabidopsis thaliana
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Rs,Sidhu, Rs.; Mathewes, S.; Bollon, A.P.
Gene 107, 111-118, 1991
A;Title: Selection of secretory protein-e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   81.8%;
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Best Local Similarity 83.3
Matches 5; Conservative
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A;Molecule type: DNA
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Threonyl-tRNA synthetase [imported] - Listeria innocua (strain Clip11262)

C, Species: Listeria innocua

C, Species: Listeria innocua

C, Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 09-Jul-2004

C, Accession: Al1631

R; Glaser, P:; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecker.

D: Jones, L.M.; Karet, U.

D: Jones, L.M.; Karet, U.

Science 294, 849-852, 2001

A; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Maok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, A; Restence number: AB1077; MUID:21837279; PMID:11679669

A; Accession: Al1631

A; Status: preliminary

A; Status: preliminary

A; Cross-references: UNIPROT:Q92BF5; GB:AL592022; PIDN:CAC96825.1; PID:g16414081; GSPDB:C

C; Genetics:

A; Genetics:

A; Genetics:

A; Genetics:

A; Genetics:

A; Genetics:

A; Cross-family: threonine-tRNA ligase
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A;Reference number: A82035; MUID:20406833; PMID:10952301
A;Accession: D82511
A;Accession: D82511
A;Anolecule type: DNA
A;Molecule type: DNA
A;Residues: 1-666 cHEI>
A;Cross-references: UNIPROT:Q9KNE8; GB:AE004345; GB:AE003853; NID:99657390; PIDN:AAF9593
A;Experimental source: serogroup 01; strain N16961; biotype El Tor
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81.8%; Score 27; DB 2; Length 640;
85.7%; Pred. No. 1.9e+02;
ive 0; Mismatches 1; Indels
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Pred. No. 1.9e+02;
0; Mismatches 1; Indels
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85.7%; Pred. No. 1.9e+02;
ive 0; Mismatches 1;
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C;Superfamily: 1,4-alpha-glucan branching enzyme
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Local Similarity 85.7%;
les 6; Conservative
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                                    Best Local Similarity
Matches 6; Conserv
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Best Local Similarity
Matches 6; Conserv
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       Query Match
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Matches
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A; Wolecule type: DNA
A; Residues: 1-72, 'E', 74-154 <SID>
Genetics:
A; Genetics:
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Best Local Similarity 71.4%; Pred. No. 4e+02;
Matches 5; Conservative 2; Mismatches 0; Indels
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334 QRANLKS 340
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Sequence 224070,
Sequence 77, Appl
Sequence 6134, A
Sequence 51, Appl
Sequence 51, Appl
Sequence 20800,
Sequence 239, App
Sequence 153, App
Sequence 163, Appl
Sequence 164, Appli
Sequence 164

Sequence 16, Appl Sequence 392, App Sequence 597, App Sequence 57, Appl Sequence 193309, Sequence 205, App Sequence 324, App

Sequence 184173, Sequence 170215, Sequence 159578, Sequence 263552, Sequence 168045,

Perfect score:

Run on:

Sequence:

Scoring table:

Searched:

Database

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Similarity 100.0%; Score 33; DB 13; Length 7; Similarity 100.0%; Pred. No. 1.3e+06; 7; Conservative 0; Mismatches 0; Indels
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| Sequence 46, Application US/10080100
| Publication No. US20020165356A1
| GENERAL INFORMATION:
| APPLICANT: Barbas, Carlos
| APPLICANT: Breier, Birgit
| TITLE OF INVENTION: Violated Sequence Ann. |
| FILE REFERENCE: TSRI 760.0 |
| CURRENT APPLICATION NUMBER: US/10/080,100 |
| CURRENT FILING DATE: 2002-02-21 |
| PRIOR PRILING DATE: 2001-02-21 |
| PRIOR FILING DATE: 2001-02-21 |
| NUMBER: OF SEQ ID NOS: 113 |
| SOFTWARE: FastSEQ for Windows Version 4.0 |
| LENGTH: 7
Control of the contro
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; Sequence 10, Application US/10080100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
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       Query Match
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Matches 7
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Sequence 10, Appl
Sequence 10, Appl
Sequence 50, Appl
Sequence 118, App
Sequence 118, App
Sequence 118, App
Sequence 188571,
Sequence 18856,
Sequence 18856,
Sequence 18856,
Sequence 18856,
Sequence 18856,
Sequence 18856,
                                                                                                                                                               April 21, 2005, 13:06:46 ; Search time 52.7 Seconds (without alignments) 44.204 Million cell updates/sec
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2. (cgn2_6/ptodateA/2/pubpaa/USO7_PUBCOMB.pep:*
3. (cgn2_6/ptodateA/2/pubpaa/USO6_PUBV_PUB.pep:*
3. (cgn2_6/ptodateA/2/pubpaa/USO6_PUBCOMB.pep:*
5. (cgn2_6/ptodateA/2/pubpaa/USO6_PUBCOMB.pep:*
6. (cgn2_6/ptodataA/2/pubpaa/USO8_NEW_PUB.pep:*
7. (cgn2_6/ptodataA/2/pubpaa/USO8_NEW_PUB.pep:*
7. (cgn2_6/ptodataA/2/pubpaa/USO8_NEW_PUB.pep:*
8. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
9. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
11. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
12. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
13. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
14. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
15. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
16. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
17. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
18. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
19. (cgn2_6/ptodataA/2/pubpaa/USO8_PUBCOMB.pep:*
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                           GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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5 US-10-080-100-10

6 US-10-437-963-188574

6 US-09-91-496-50

US-09-91-496-118

US-09-91-496-118

US-09-91-493-19307

US-10-437-963-18856

6 US-10-437-963-188587

6 US-10-437-963-188587

6 US-10-437-963-188587

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6 US-10-437-963-188587
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Match Length DB
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APPLICANT: Reed, Steven G.

APPLICANT: Campos-Neto, Antonio

APPLICANT: Reed, Steven G.

APPLICANT: Webb, John R.

APPLICANT: Webb, John R.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Brancon, Mark

APPLICANT: Brancon, Mark

APPLICANT: Brancon, Mark

TITLE OF INVENTION: LEISHWANIA ANTIGENS FOR USE IN THE

TITLE OF INVENTION: LEISHWANIA ANTIGENS OF LEISHWANIASIS

TITLE OF INVENTION: LEISHWANIA LOSO

CURRENT APPLICATION NUMBER: 105/09/991,496

CURRENT APPLICATION NUMBER: 2001-11-20

NUMBER OF SEQ ID NOS: 137

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 50

TENDER DEAD
                                                                                                                 APPLICANT: Coler, Alay
APPLICANT: Coler, Rhea
APPLICANT: Brannon, Mark
APPLICANT: Brannon, Mark
APPLICANT: Brannon, Mark
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
FILE REFERENCE: 210121, 420C8
FILE REPERENCE: 210121, 420C8
CURRENT APPLICATION NUMBER: US/09/874,923
CURRENT PILING DATE: 2001-06-04
NUMBER OF SEQ ID NOS: 122
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 50
LENGTH: 510
TYPE: PRT
TYPE: PRT
COGANISM: Leishmania chagasi
US-09-874-923-50
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Pred. No. 3.9e+02;
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Patent No. US20020081320A1
GENERAL INPORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Webb, John R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 50, Application US/09991496
Patent No. US20020169285A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              87.9%;
                           Dillon, Davin C.
Skeiky, Yasir A.W.
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US-09-991-496-50
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Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 87.9
Best Local Similarity 100.
Matches 6; Conservative
Webb, John R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           114 ORANLR 119
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114 QRANLR 119
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| Sequence 1885/4
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| Sevente 1885/4
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| Sevente 1885/4
| APPLICANT: La Rosa, Thomas J.
| APPLICANT: Cao, Yihua |
| APPLICANT: Cao, Yongwei |
| APPLICANT: Boukharov, Andrey A.
| APPLICANT: Brazauk, Brad |
| APPLICANT: Li, Ping |
| TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement |
| TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement |
| TITLE OF INVENTION NUMBER: US/10/437,963 |
| CURRENT APPLICATION NUMBER: US/10/437,963 |
| NUMBER OF SEQ ID NOS: 204966 |
| SEQ ID NO 1885/4 |
| LENGTH: 392 |
| LENGTH: 393 |
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| LENGTH: 393
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100.0%; Pred. No. 3e+02;
tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
100.0%; Score 33; DB 13; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.3e+06;
Matches 7; Conservative 0; Mismatches 0; Indels
                    GENERAL INFORMATION:
APPLICANT: Barbas, Carlos
APPLICANT: Barbas, Carlos
APPLICANT: Breier, Birgit
TITLE OF INVENTION: Zinc Finger Binding Domains for
TITLE OF INVENTION: Nucleotide Sequence ANN
TITLE OF INVENTION: Nucleotide Sequence ANN
TITLE REFERENCE: TSRI 760.0
CURRENT APPLICATION NUMBER: US/10/080,100
CURRENT FILING DATE: 2002-02-21
PRIOR PILING DATE: 2001-02-21
NUMBER OF SEQ ID NOS: 113
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , OTHER INFORMATION: Clone ID: PAT_MRT4530_85165C.1.pep
US-10-437-963-188574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 50, Application US/09874923
Patent No. US20020081320A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Campos-Neto, Antonio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ) OTHER INFORMATION: synthesized US-10-080-100-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT
ORGANISM: Artificial Sequence
Publication No. US20020165356A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 100.
Matches 6; Conservative
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ORGANISM: Oryza sativa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        153 QRANLR 158
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US-09-874-923-50
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GENERAL INFORMATION:

APPLICANT: La Rosa, Thomas J.

APPLICANT: Zhou, Yihua

APPLICANT: Zhou, Yihua

APPLICANT: Boukharov, Andrey A.

APPLICANT: ANDRESS A.

CURRENT APPLICATION NUMBER: US/10/437,963

CURRENT FILING DATE: 2003-05-14

NUMBER OF SEQ ID NOS: 204966

BENGTH: 768

LENGTH: 768

LENGTH: 768
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
TITLE OF INVENTION: 130-10(52052)B
CURRENT PEPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-29
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR PLILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 19307
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                                                                                                                                                                                                                                                                                                                                                                                              Score 29; DB 15; Length 73
Pred. No. 5.7e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , OTHER INFORMATION: Clone ID: PAT_MRT4530_85162C.1.pep
US-10-437-963-188571
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; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 188571, Application US/10437963
Publication No. US20040123343A1
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Barbazuk, Brad
Li, Ping
                                                                                                                                                                                                                                                                                                                                                                                                87.9%;
                                                                                                                                                                                                                                                                                         TYPE: PRT
CRGANISM: Myxococcus xanthus
US-10-369-493-19307
                                                                                                                                                                                                                                                                                                                                                                                                                                                       6; Conservative
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557 KRANLRA 563
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228 QRANLR 233
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Best Local Similarity
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APPLICANT: Webb, John R.
APPLICANT: Webb, John R.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Bhatia, Ajay
APPLICANT: Bhatia, Ajay
APPLICANT: Coller, Rhea
APPLICANT: Probst, Peter
APPLICANT: Probst, Peter
APPLICANT: Probst, Peter
APPLICANT: Probst, Peter
TITLE OF INVENTION: LIBRAPAY AND DIAGNOSIS OF LEISHMANIASIS
FILE REFERENCE: 210121.420C9
CURRENT FILING DATE: 2001-11-20
NUMBER OF SEQ ID NOS: 137
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 118
LENGTH: 538
                                                                                            APPLICANT: COLET, ALBEA
APPLICANT: PROBET, PECET
APPLICANT: Brannon, Mark
TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
TITLE OF INVENTION: LEISHMANIAND DIAGNOSIS OF LEISHMANIASIS
FILE REFERENCE: 210121.420C8
CURRENT PELLING DATE: 2001-06-04
NUMBER OF SEQ ID NOS: 122
SOFTWARE: RastSEQ for Windows Version 4.0
SEQ ID NO 118
LENGTH: 538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     87.9%; Score 29; DB 9; Length 538; 100.0%; Pred. No. 4.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Pred. No. 4.1e+02; ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: Leishmania major and chagasi
US-09-874-923-118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT ORGANISM: Leishmania major and chagasi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 19307, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 118, Application US/09991496
Patent No. US20020169285A1
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 100.
Matches 6; Conservative
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Matches 6; Conserv
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US-10-369-493-19307
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Gaps

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Sequence 188587, Application US/10437963
; Sequence 188587, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Apolication Vihua
; APPLICANT: Zhou, Yihua
; APPLICANT: Zhou, Yihua
; APPLICANT: Boukharov, Andrey A.
; FILE REFERENCE: 38-21 (53221) B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 188587
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TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
  TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 188584
LENGTH: 877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87.9%; Score 29; DB 16; Length 886; 100.0%; Pred. No. 6.9e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: Clone ID: PAT_MRT4530_85174C.1.pep
US-10-437-963-188584
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US-10-437-963-188587
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Best Local Similarity 100.0%; Pred. No. 6.8e+02;
Matches 6; Conservative 0; Mismatches 0;
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APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Cao, Yihua
APPLICANT: Ww. Wei
APPLICANT: Ww. Wei
APPLICANT: Barbazuk, Brad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 100.
Matches 6; Conservative
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ORGANISM: Oryza sativa
                                                                                                                                                                                                       TYPE: PRT
ORGANISM: Oryza sativa
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240 QRANLR 245
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244 QRANLR 249
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TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53221) B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 188578
LENGTH: 869
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement FILE REFERENCE: 38-21(53221) B CURRENT APPLICATION NUMBER: US/10/437,963 CURRENT FILING DATE: 2003-05-14 NUMBER OF SEQ ID NOS: 204966 SEQ ID NOS: 204966 LENGTH: 868
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APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
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CHER INFORMATION: Clone ID: PAT_MRT4530_85158C.1.pep

US-10-437-963-188566
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US-10-437-963-188578
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 188578, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 188584, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
APPLICANT: La ROSA, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Wu, Wei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
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Matches 6; Conservative
                                                                                                                                                                                                                              TYPE: PRT
ORGANISM: Oryza sativa
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Sequence 39, Application US/10432443

Sequence 39, Application US/10432443

Publication No. US20040076982A1

GENERAL INFORMATION:

APPLICANT GOARTH et al.

TILLE OF INVENTION: 3-HYDROXYPROPIONIC ACID AND OTHER ORGANIC COMPOUNDS

FILE REFERENCE: 6662-65884

CURRENT APPLICATION NUMBER: US/10/432,443

CURRENT FILING DATE: 2003-05-19

PRIOR APPLICATION NUMBER: US 60/317,845

PRIOR FILING DATE: 2001-09-07

PRIOR FILING DATE: 2001-09-07

PRIOR FILING DATE: 2001-09-07

PRIOR FILING DATE: 2001-07-20

PRIOR FILING DATE: 2000-11-20

PRIOR PRIOR PRIOR DATE: 2000-11-20

PRIOR FILING DATE: PAPENTING DATE: 2000-11-20

PRIOR FILING DATE: 2000-11-20

PRIOR FILING DATE: 2000-11-20

PRIOR FILING DATE: PAPENTING DATE: 2000-11-20

PRIOR FILING DATE: PAPENTING DATE: PAPEN
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85.7%; Pred. No. 1.40+03;
tive 1; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                     TYPE: PRT:
ORGANISM: Oryza sativa
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT4530_85171C.1.pep
US-10-437-963-188581
FILE REFERENCE: 38-21(53221)B
CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 188581
LENGTH: 916
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; ORGANISM: Chloroflexus aurantiacus
US-10-432-443-39
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 87.5
Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity 85.7
Matches 6; Conservative
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US-10-432-443-39
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Search completed: April 21, 2005, 14:09:43 Job time : 54.7 secs

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Sequence 50, Application US/09183861

Patent No. 6365165

GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Webb, John R.
APPLICANT: Webb, John R.
APPLICANT: Skelky, Yaakin C.
APPLICANT: Skelky, Yaakin C.
APPLICANT: Skelky, Yaakin A.
ITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USEIN THE THERAPY AND NUMBER OF SEQUENCES: 87

CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: Washington
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   87.9%; Sc.
100.0%; Pre
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Best Local Similarity
Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                           JS-09-252-991A-31771
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Sequence 50, Appl
Sequence 50, Appl
Sequence 118, App
Sequence 12183, A
Sequence 12183, A
Sequence 5279, Ap
Sequence 5279, Ap
Sequence 29671, A
Sequence 29671, A
Sequence 2, Appli
Sequence 25, Appli
Sequence 24, Appli
Sequence 25, Appli
Sequence 26, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 324, App
Sequence 16168, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 15786, A
Sequence 18428, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                          April 21, 2005, 12:51:52 ; Search time 18.7 Seconds (without alignments) 27.943 Million cell updates/sec
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(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
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US-09-051-974A-50
US-09-551-974A-50
US-09-565-50A-50
US-09-874-923-118
US-09-874-923-118
US-09-902-540-12183
US-09-902-540-13985
US-09-902-540-13985
US-09-902-540-13985
US-09-902-540-13985
US-09-902-540-13985
US-09-902-540-13985
US-09-902-540-13985
US-09-002-540-13985
US-09-002-540-13985
US-09-003-640-2
US-08-637-640-2
US-08-637-640-2
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US-08-851-843A-205
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US-09-902-540-15786
US-09-252-991A-18428
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US-09-183-861-50
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US-08-854-050-205
US-09-430-323-205
US-09-402-181B-324
US-09-721-456-324
                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                           513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                       Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

    protein search, using sw model

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Gapop 10.0 , Gapext 0.5
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seq length: 200000000
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33
1 QRANLRA 7
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Match Length
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3038
3038
3038
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Maximum DB e
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No.
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Gaps

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Length 177; Indels

Score 29; DB 4; Pred. No. 38; 0; Mismatches

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## Sequence 31771, Application US/09252991A

## SEQ ID NOTENTION: WINDERLY ACID AND ANINO ACID SEQUENCES RELATING TO PSEUDOMONAS

## TITLE OF INVENTION: ALENGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

## TITLE OF INVENTION: ALENGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

## CURRENT APPLICATION NUMBER: US/09/252,991A

## CURRENT FILING DATE: 1999-02-18

## PRIOR FILING DATE: 1998-02-18

## PRIOR FILING DATE: 1998-07-27

## NUMBER OF SEQ ID NOS: 33142

## SEQ ID NO 31771

## LENGTH: 177
                     Sequence 20871, A Sequence 17, Appl Sequence 1902, A Sequence 53, Appl Sequence 53, Appl Sequence 19, Appl Sequence 21, Appl Sequence 22, Appl Sequence 21, Appl Sequence 21, Appl Sequence 2, Appli Sequence 2, Appli
US-09-270-767-42278

US-09-252-991A-20871

US-09-166-350-17

US-09-252-991A-19805

US-09-770-170-6

US-09-191-593-53

US-09-191-593-58

US-09-270-767-38253

US-09-270-767-38390

US-09-270-767-38390

US-09-270-767-38390

US-09-270-767-53607

US-09-191-593-10

US-09-101-593-10

US-09-101-593-10
                                                                                                                                                                                                                                                                                                                                                                                                                     ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ) ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31771
```

Gaps

.; 0

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APPLICANT: Reed, Steven G.
APPLICANT: Reed, Steven G.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Webb, John R.
APPLICANT: Dillion, Davin C.
APPLICANT: Sheiky, Yasir A.W.
APPLICANT: Sheiky, Ajay
APPLICANT: Coler, Rhea
APPLICANT: Peter Probst
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
TITLE OF INVENTION: 10121420C6
CURRENT APPLICATION UNDERS: US/09/565,501A
CURRENT FILING DATE: 2000-05-05
NUMBER OF SEQ ID NOS: 112
                                                                                                                                                                                                                                                                                                                                                            Length 510;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Reed, Steven G.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Webb, John R.
APPLICANT: Dillon, Davin C.
APPLICANT: Skeiky, Yasir A.W.
TITLE OF INVENTION: TEESHWANTA ANTIGENS FOR USE IN THE
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHWANIASIS
FILE REPERENCE: 210121.420C5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 510;
                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                                                                                                                                      Score 29; DB 3; Le
Pred. No. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               87.9%; Score 29; DB 4; I 100.0%; Pred. No. 1.2e+02; tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/551,974A
CURRENT APPLICATION NUMBER: US/09/551,974A
CURRENT APPLICATION NUMBER: US/09/551,974A
NUMBER OF SEQ ID NOS: 101
SOFTWARE: FastSEQ for Windows Version 4.0
ERQ ID NO 50
LENGTH. 510
                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 50, Application US/09551974A Patent No. 6500437
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100.0%; Pre
0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT; ORGANISM: Leishmania chagasi
US-09-551-974A-50
                            INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 510 amino acids
   (206) 682-6031
                                                                                                                                                                                                                                                                                                                                                         Query Match 87.9
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 87.5
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                    MOLECULE TYPE: peptide (CRIGINAL SOURCE: ORIGINAL SOURCE: ORGANISM: Leishmania US-09-022-765-50
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                114 QRANLR 119
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APPLICANT: Reed, Steven G.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Webb, John R.
APPLICANT: Dillon, Davin C.
APPLICANT: Skeiky, Yasir A.W.
TITLE OF INVENTION: LEISHWANIA ANTIGENS FOR USEIN THE THERAPY AND NUMBER OF SEQUENCES: 87
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 510;
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/183,861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       87.9%; Score 29; DB 3;
100.0%; Pred. No. 1.2e+0
tive 0; Mismatches
                                                                                                                                                                                                                         FILING APPLICATION:
PRIOR APPLICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/022,765
FILING DATE: 12-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: MAKI, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/POCKET NUMBER: 210121.420C3
TELEFORMUNICATION INFORMATION:
TELEFORMUNICATION INFORMATION:
TELEFORME: (206) 682-6931
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 510 amino acids
TYPE: amino acid
STRANDEDNESS: single
TYPE: AND APPLICATION INFORMER: ADD ACIDS ACI
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NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.420C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 50, Application US/09022765
Patent No. 6375955
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: Leishmania chagasi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITY: Seattle
STATE: Washington
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 6; Conserva
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Gaps

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Gaps

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US-09-502-540-12183

Sequence 12183, Application US/09902540

Patent No. 6833447

GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Hinkle, Roger C.
APPLICANT: Migand, Roger C.
APPLICANT: Wiegand, Roger C.
APPLICANT: Wiegand, Roger C.
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT APPLICATION NUMBER: 60/217,883
CURRENT APPLICATION NUMBER: 60/217,883
PRIOR APPLICATION NUMBER: 60/217,883
NUMBER OF SEQ ID NOS: 16825

SEQ ID NO 12183
LENGTH: 625
                                                                                                                                                                                                                                                                                                                                             Sequence 118, Application US/09874923

Sequence 118, Application US/09874923

Patent No. 6638517

SCRUERAL INFORMATION:

APPLICANT: Read, Steven G.

APPLICANT: Read, Steven G.

APPLICANT: Webb, John R.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Bhatia, Ajay

APPLICANT: Brannon, Mark

TITLE OF INVENTION: LEISHWANIA ANTIGENS FOR USE IN THE

TITLE OF INVENTION: LEISHWANIA ANTIGENS FOR USE IN THE

TITLE OF INVENTION: LEISHWANIA ANTIGENS OF LEISHWANIASIS

TITLE OF INVENTION: LEISHWANIA ANTIGENS

TURRENT FILING DATE: 2001-06-04

NUMBER OF SEQ ID NOS: 122

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 118

LENGTH: 538
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                                                                                                Length 510;
                                                                                                                      2e+02;
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100.0%; Pred. No. 1.2e+02;
tive 0; Mismatches 0;
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Pred. No. 1.5e+02;
                                                                                           Query Match 87.9%; Score 29; DB Best Local Similarity 100.0%; Pred. No. 1.2 Matches 6; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; TYPE: PRT ; ORGANISM: Leishmania major and chagasi US-09-874-923-118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87.9%;
  ; TYPE: PRT
; ORGANISM: Leishmania chagasi
US-09-874-923-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: PRT // ORGANISM: Myxococcus xanthus US-09-902-540-12183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 87.9
Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity
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GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Read, Steven G.

APPLICANT: Campos-Netco, Antonio
APPLICANT: Campos-Netco, Antonio
APPLICANT: Webb, John R.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Skeiky, Yasir A.W.

APPLICANT: Bhatia, Ajay

APPLICANT: Probst, Peter

APPLICANT: Probst, Peter

APPLICANT: Trian Probst, Peter

APPLICANT: Trian Probst, Peter

APPLICANT: Trian Probst, Peter

APPLICANT: Trian Probst, Peter

APPLICANT: Stannon, Mark

ITILE OF INVENTION: LEISHMANIASIS

FILE REFERENCE: 210121.420C8

CURRENT APPLICATION NUMBER: US/09/874,923

CURRENT FILING DATE: 2001-06-04

NUMBER OF SEG ID NOS: 122

SOFTWARE FASTSEQ for Windows Version 4.0
                                                                                                                                               Length 510;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87.9%; Score 29; DB 4; Length 510; 100.0%; Pred. No. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: WELLS, John R.
APPLICANT: Welb, John R.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Brobst, Peter
APPLICANT: Probst, LEISHMANIA ANTIGENS FOR USE IN THE
TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
TITLE OF INVENTION: LEISHMANIA ANTIGENS OF LEISHMANIASI
FILE REFERENCE: 210121.4207
CURRENT FILING DATE: 2000-08-14
NUMBER OF SEQ ID NOS: 112
SOFTWARE PESTERO for Windows Version 4.0
SEQ ID NO 50
LENOTH: 510
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                                                                                                                                                                                                                                                                                                                                                         RESULT 6
US-09-639-206A-50
; Sequence 50, Application US/09639206A
; Patent No. 6613337
                                                                                                                         87.9%; Scc...
100.0%; Pre
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Reed, Steven G.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Webb, John R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: PRT
; ORGANISM: Leishmania chagasi
US-09-639-206A-50
                                            TYPE: PRT CRGANISM: Leishmania chagasi US-09-565-501A-50
                                                                                                                                       Query Match
Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 6; Conservative
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114 QRANLR 119
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SEQ ID NO 50
LENGTH: 510
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84.8%;
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Best Local Similarity 71.3.
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263 QRANIRS 269
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Best Local Similarity
Matches 6; Conserv
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27 RANLRA 32
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US-09-252-991A-29671
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US-09-902-540-13985
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TYPE: PRT
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APPLICANT: Dunas Milne Edwards, J.B.
APPLICANT: Duclert, A.
APPLICANT: Duclert, A.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
PATER REPERENCE: 59.US2.REG
CURRENT APPLICATION WHORER: US/09/513,999C
CURRENT FILING DATE: 2000-02-24
PRIOR APPLICATION WHOMBER: US 60/122,487
PRIOR FILING DATE: 1999-02-26
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US-09-513-999C-5279
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36;
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0; Indels
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APPLICANT: Johert, S.
APPLICANT: Johert, S.
FILE REFERENCE: GENSET.054PR2
CURRENT APPLICANTON: WHERER: US/09/621,976
CURRENT APPLICANTON NUMBER: US/09/621,976
CURRENT FILION DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 4383
LENGTH: 104
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100.0%; Pred. No. ...
0; Mismatches
1; Mismatches
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Patent No. 6639063
GENERAL INFORMATION:
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OTHER INFORMATION: Xaa=Arg or Ser
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Best Local Similarity 100.
Matches 6; Conservative
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SOFTWARE: Patent.pm
SEQ ID NO 5279
LENGTH: 124
6; Conservative
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CORGANISM: Homo sapiens
US-09-621-976-4383
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ORGANISM: Homo sapiens
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446 KRANLRA 452
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Best Local Similarity
                                 1 ORANLRA 7
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US-09-513-999C-5279
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2 RANLRA 7

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GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
Sequence 10505, Application US/09902540
; Sequence 10505, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
    APPLICANT: Hinkle, Gregory J.
    APPLICANT: Slater, Steven C.
    APPLICANT: Wiegand, Roger C.
    TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
    FILE REFERENCE: 38-10(15849)
    CURRENT APPLICATION NUMBER: US/09/902,540
    CURRENT FILING DATE: 2001-07-10
    FRIOR FILING DATE: 2000-07-10
    NUMBER OF SEQ ID NOS: 16825
    SEQ ID NO 10505
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APPLICANT: Goldman, Barry S.
APPLICANT: Stater, Steven C.
APPLICANT: Misgand, Roger C.
TITLE OF INVENTION: Myscoccus xanthus Genome Sequences and Uses Thereof
FILE REPRENCE: 38-10 (15849)8
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT PILING DATE: 2000-07-10
PRIOR PILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 13985
LENGTH: 430
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Pred. No. 1.2e+02;
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85.7%; Pred. No. 1.8e+02;
ive 1; Mismatches 0; Indels
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APPLICANT: MILLER, A. DUSTY
APPLICANT: WOLGAMOT, GREG
APPLICANT: WOLGAMOT, ERG
APPLICANT: WOLGAMOT, ERG
APPLICANT:
ITTLE OF INVENTION: PACKAGING CELL LINES
NUMBER OF SEQUENCES: 11
CORRESPONDERS: TOWNSEND and TOWNSEND and CREW LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
CITY: San Francisco
CITY: San Francisco
COMPUTRY: US.A.

ZIP: 94111
COMPUTRY: IBM PC COMPATIBLE
COMPUTRY: BEADABLE FORM:
MEDILCATION NATA:
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION NATA:
APPLICATION NUMBER: US/09/075,272
FILING DATE: 08-MAY-1997
ATTORNEY/AGET INFORMATION:
PRIOR APPLICATION NUMBER: US/09/075,272
FILING DATE: 09-MAY-1997
ATTORNEY/AGET INFORMATION:
REGISTRATION NUMBER: 14538A-003710
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION FOR SEQ ID NO: 5:
SEQUENCE: ARACTERISTICS:
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE: AND ACTERISTICS:
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
FRIOR APPLICATION NUMBER: US 60/074,788
FRIOR FILING DATE: 1998-02-18
FRIOR PELLING DATE: 1998-02-18
FRIOR FILING DATE: 1998-02-18
FRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 29671
LENGTH: 457
TYPE: ...
TYPE
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US-09-075-272-5
; Sequence 5, Application US/09075272
; Patent No. 6136598
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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29671
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amino acid
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Best Local Similarity 85.7
Matches 6; Conservative
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MOLECULE TYPE: peptide
US-09-075-272-5
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Search completed: April 21, 2005, 13:19:54 Job time : 19.7 secs |||||| 120 RANLRA 125

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The present invention describes a polypeptide comprising 2 to 12 zinc finger-nucleotide binding peptides in which at least one contains a nucleotide binding region. Also described: (1) an isolated and purified polymucleotide encoding the polypeptide cited above; (2) an expression vector containing the polymucleotide in (1); and (3) a process of regulating expression of a nucleotide sequence that contains the sequence 31 comprising exposing the nucleotide sequence to the polypeptide cited above. (S1) is (5'-ANN)n-3', where n = any integer from 2-12; and N = A, C, G, or T. The polypeptide is useful for modulating gene expression in promoters from viral groups, e.g. Lentivirus group, such as human T-cell
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AAG01198
Abu52577
Abu52575
Aa05356
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AAG20104
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(NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
(SCRI ) SCRIPPS RES INST.
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                                                                                                                             AAU05035
AAU04710
ADQ20104
ABM67453
ADR99233
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ADJ69757
AAE11893
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ABU52575
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                                                                                                                                                                                                                    April 21, 2005, 12:51:51; Search time 73.1 Seconds (without alignments) 37.036 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Description
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Abu660749
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Abu60713
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Aau04795. R
Aau04796 R
                           GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2105692 seqs, 386760381 residues
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                               protein search, using sw model
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ABU60713
ADJ98368
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ABO83025
AAW70232
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AAU71828
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AAB71282
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AAB71317
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ADS30274
ABG80407
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geneseqp2002s:*
geneseqp2003as:*
geneseqp2003bs:*
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Maximum DB seq length: 200000000
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Query

Score

Result No.

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QRANLRA .
QRANLRA
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                                                                                                                                                                                                                                                                                                                                                                                          Barbas CF,
                                                                                                                                                                                                                                    Synthetic.
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                                                               RESULT 3
ABU60749
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention describes a polypeptide comprising 2 to 12 zinc finger-nucleotide binding peptides in which at least one contains a nucleotide binding region. Also described: (1) an isolated and purified polynucleotide binding region. Also described: (2) an expression vector containing the polymediectide cited above; (2) an expression vector containing the polymediectide in (1); and (3) a process of regulating expression of a nucleotide sequence to the polypeptide cited above. (S1) is (5'-ANN)n-3', where n = any integer from 2-12; and N = A, C, G, or T. The polypeptide is useful for modulating gene expression in promoters from viral groups, e.g. Lentivirus group, such as human T-cell lymphocytic virus (HILV) 1 and 2, or human immunodeficiency virus (HILV) 1 or 2. ABQ75687 to ABQ75687 to ABG75697 and ABP53121 represent sequences given in the exemplification of the present invention
lymphocytic virus (HTLV) 1 and 2, or human immunodeficiency virus (HIV) 1 or 2. ABQ75687 to ABQ75697 and ABP53112 to ABF53221 represent sequences given in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                          Zinc finger binding domain, zinc finger nucleotide binding peptide, zinc finger, gene expression; modulation, promoter, viral, Lentivirus, human T-cell lymphocytic virus, HTLV; human immunodeficiency virus, HIV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             viral
                                                                                                       Gaps
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0
                                                                           100.0%; Score 33; DB 5; Length 7; 100.0%; Pred. No. 1.8e+06; ive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                  Zinc finger nucleotide binding peptide SEQ ID NO:46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NOVS ) NOVARTIS AG.
(NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
(SCRI ) SCRIPPS RES INST.
                                                                                                                                                                                                                      ABP53144 standard; peptide; 7 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        21-FEB-2002; 2002WO-EP001862
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                                                                                                                                                                                                                                                                         12-NOV-2002 (first entry)
                                                                         Query Match
Best Local Similarity 100.
Matches 7; Conservative
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Best Local Similarity 100.
Matches 7; Conservative
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Oranlra 7
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                                                   Sequence 7 AA;
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                                                                                                                                                                                                                                                                                                                                                                              Synthetic.
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                                                                                                                                                                                             RESULT
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The invention relates a new polypeptide comprising from 2-12 zinc finger-
nucleotide binding peptides at least one of which contains a nucleotide
binding region having any of 71 nucleotide binding sequences, fully
defined in the specification. Also included are an isolated and purified
polynucleotide that encodes the polypeptide, an expression vector
containing the polynucleotide and a process of regulating expression of a
nucleotide sequence that contains the sequence [5'-AMN] n-3', where n is
nucleotide sequence to the zinc finger protein of the invention. The methods and
compositions of the present invention, are useful for modulating zinc-
finger protein binding and hence regulating aspects of gene expression.
The zinc finger polypeptides are useful in the treatment of treatment of
disorders associated with the aberrant expression or activity of the
polypeptide, such as viral infection, in particular HIV or human T cell
lymphotrophic virus (HTLV) infection. The present sequence is a synthetic
nucleotide binding sequence (zinc finger) expressed by a phage display
library, which may be assembled into the zinc finger protein of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New zinc finger-nucleotide binding polypeptides, useful in the treatment of disorders associated with the aberrant expression or activity of the polypeptide, such as HIV infection or human T cell lymphotrophic virus infection.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zinc finger; phage display; ant-HIV; virucide; HIV infection; human T cell lymphotrophic virus infection; HTLV.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Phage displayed zinc finger recognising AAA #5.
                                                                                                                                                                                                         ABU60749 standard; peptide; 7 AA.
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                                                                                                                                                                                                                                                                                                                                                                    06-MAY-2003 (first entry)
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Gaps

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Query Match
Best Local Similarity 100.00
7; Conservative
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                                                                                                                                                                                                                                                                                                  Dreier B;
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Oranlra
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                                                                                                           WO200266640-A2.
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                                                                                                                                        29-AUG-2002.
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                                                                                                                                                                                                                                                                                                Barbas CF,
                                                                               Synthetic.
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ID ABU6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates a new polypeptide comprising from 2-12 zinc finger-
nucleotide binding peptides at least one of which contains a nucleotide
binding region having any of 71 nucleotide binding sequences, fully
defined in the specification. Also included are an isolated and purified
containing the polynucleotide and a process of regulating expression of a
nucleotide sequence that contains the sequence (5'-ANN) n-3', where n is
an integer from 2-12, the process compositions of the present invention. The methods and
compositions of the present invention, are useful for modulating zinc-
finger protein binding and hence regulating aspects of gene expression.
The zinc finger polypeptides are useful in the treatment of the zinc finger polypeptides are useful in the treatment of disorders associated with the aberrant expression or activity of the
colypeptide, such as viral infection, in particular HIV or human T cell
lymphotrophic virus (HTLV) infection. The present sequence is a synthetic
nucleotide binding sequence (zinc finger) expressed by a phage display
library, which may be assembled into the zinc finger protein of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                        New zinc finger-nucleotide binding polypeptides, useful in the treatment of disorders associated with the aberrant expression or activity of the polypeptide, such as HIV infection or human T cell lymphotrophic virus
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                                                                                                                         phage display, ant-HIV; virucide, HIV infection, lymphotrophic virus infection; HTLV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Score 33; DB 6; I
100.0%; Pred. No. 1.8e+06;
                                                                                          Phage displayed zinc finger recognising AAA #6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Page 7; 22pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABP53167 standard; peptide; 8 AA.
ABU60796 standard; peptide; 7 AA
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                                                                                                                                                                                                                                                                  21-FEB-2002; 2002US-00080100.
                                                                                                                                                                                                                                                                                                21-FEB-2001; 2001US-00367356
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                                                             (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                            Barbas CF, Dreier B;
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                                                                                                                        Zinc finger;
human T cell
                                                            06-MAY-2003
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                                                                                                                                                                       Synthetic
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                              ABU60796;
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Matches
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Zinc finger binding domain; zinc finger nucleotide binding peptide; zinc finger; gene expression; modulation; promoter; viral; Lentivirus; human T-cell lymphocytic virus; HTLV; human immunodeficiency virus; HIV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides comprising 2 to 10 zinc finger-nucleotide binding peptides, useful for modulating gene expression in promoters from viral groups, e.g. Lentivirus group, such HTLV-1 and 2, or HIV-1 and 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 33; DB 5; Length 8; 100.0%; Pred. No. 1.8e+06; Live .0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Phage displayed zinc finger recognising AAA #4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (NOVS ) NOVARTIS AG.
(NOVS ) NOVARTIS-ERFINDUNGEN VERW GES MBH.
(SCRI ) SCRIPPS RES INST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABU60713 standard; peptide; 8 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Fig 2; 48pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-FEB-2002; 2002WO-EP001862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-FEB-2001; 2001US-00791106.
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The invention relates to novel uninary specific genes and their encoded proteins or a nucleic acid molecule that selectively hybridizes, or has at least 95 % sequence identity, to these nucleic acid molecules. The urinary specific nucleic acid molecules, polypeptides and antibodies against the polypeptides are useful for identifying, diagnosing, monitoring, staging; imaging or treating urinary cancer and non-cancerous disease states of the urinary tract. The nucleic acids and polypeptides are also useful in gene therapy, for designing and/or identifying antagonists or agonists of the polypeptides and for producing transgenic
                                                                                                                                                                                                                                 The invention comprises a library of multimeric DNA binding polypeptides (e.g. zinc finger DNA binding polypeptides). The zinc finger binding polypeptides of the invention are useful for sterically occluding the binding site of a natural transcription factor and enhancing or silencing target gene expression. The present amino acid sequence represents a zinc finger DNA binding peptide of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New urinary specific nucleic acid molecules and polypeptides, useful in gene therapy, or for identifying, diagnosing, monitoring, staging, imaging or treating urinary cancer and non-cancerous disease states of
                                                                                          New zinc finger library of multimeric DNA binding polypeptides, useful for sterically occluding the binding site of a natural transcription factor, and enhancing or silencing target gene expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      s; gene therapy; urinary specific nucleic acid; cancer; transgenic animal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 33; DB 7; I
100.0%; Pred. No. 1.8e+06;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 12; SEQ ID NO 330; 392pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADK14951 standard; protein; 600 AA.
                                                                                                                                                                                       Example 11; Fig 19; 64pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-DEC-2002; 2002WO-US041613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-DEC-2001; 2001US-0343690P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Urinary specific protein #57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ΰ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              06-MAY-2004 (first entry)
  Blancafort P;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.
Matches 7; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cytostatic; vaccine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (DIAD-) DIADEXUS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-587114/55.
                                                 WPI; 2003-731499/69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              diagnosis; urinary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sun X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      urinary tract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORANLRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORANLRA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003057839-A2.
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 8 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
Barbas CF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17-JUL-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Macina RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADK14951;
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                                                                                                                                                                                                                                                                                                                                                                                                The invention relates a new polypeptide comprising from 2-12 zinc finger-
nucleotide binding peptides at least one of which contains a nucleotide
binding region having any of 71 nucleotide binding sequences, fully
defined in the specification. Also included are an isolated and purified
polynucleotide that encodes the polypeptide, an expression vector
containing the polynucleotide and a process of regulating expression of a
nucleotide sequence that contains the sequence (5'-ANN) n-3', where n is
an integer from 2-12, the process comprising exposing the nucleotide
sequence to the zinc finger protein of the invention. The methods and
compositions of the present invention, are useful for modulating zinc-
finger protein binding and hence regulating aspects of gene expression.
The zinc finger polypeptides are useful in the treatment of treatment of
disorders associated with the aberrant expression or activity of the
compositions of the present infection, in particular HIV or human T cell
lymphotrophic virus (HILW) infection, in particular HIV or human T cell
incleotide binding sequence (zinc finger) expressed by a phage display
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                    New zinc finger-nucleotide binding polypeptides, useful in the treatment of disorders associated with the aberrant expression or activity of the polypeptide, such as HIV infection or human T cell lymphotrophic virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nucleotide binding sequence (zinc finger) expressed by a phage disp
library, which may be assembled into the zinc finger protein of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          library, multimeric DNA binding polypeptide;
zinc finger DNA binding peptide; gene expression silencing;
gene expression enhancement.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 33; DB 6; I
Pred. No. 1.8e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zinc finger DNA binding peptide #39.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADJ98368 standard; peptide; 8 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                            Claim 1; Fig 2; 22pp; English.
  21-FEB-2002; 2002US-00080100.
                                                 21-FEB-2001; 2001US-00367356.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-FEB-2002; 2002US-0354981P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                             (SCRI ) SCRIPPS RES INST
                                                                                                                                           Barbas CF, Dreier B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
7, Conserve
                                                                                                                                                                                          WPI; 2003-255225/25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003066828-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 8 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nvention.
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RESULT 7 ADJ98368

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(SCRI) SCRIPPS RES INST.

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Gaps

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Length 8; 0; Indels

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WPI; 1998-447242/38.
N-PSDB; AAV47577.
                                                                                                                                                                                                                                                                                                                                                              (CORI-) CORIXA CORP.
                      ORANLR 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORANLR 119
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ORANLR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 510 AA;
                                                                                                                                                                                                                                                                                                       12-FEB-1998;
                                                                                                                                                                                                                                                                                                                           12-FEB-1997;
27-AUG-1997;
                                                                                                                                                                                                                                                        WO9835045-A2
                                                                                                                            17-OCT-2003
13-NOV-1998
                                                                                                                                                                                                                                                                               13-AUG-1998,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 generally
                                                                                                     AAW70232;
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                      112
                                                                                                                                                                                                                                                                                                                                                                                     Reed SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                        RESULT 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to Pseudomonas aeruginosa polypeptides and the polynucleotides encoding them. The sequences are useful in diagnosis and therapy of pathological conditions, as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from a parcerial infection, for evaluating a compound, such as a polypeptide, for the ability to bind a P. aeruginosa nucleic acid, as components of effective antibacterial argets, as templates for antibacterial drugs, including anti-P. aeruginosa derived peptides or polypeptides, as target components for diagnosis and/or treatment of P. aeruginosa-caused infection, and in detection of P. aeruginosa sequences of Pseudomonas species using blochip technology. Sequences ABO67826-ABO84396 represent P. aeruginosa polypeptides of the invention. Note: The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel isolated nucleic acid encoding pseudomonas aeruginosa polypeptide, useful as molecular targets for diagnostics, prophylaxis and treatment of pathological conditions resulting from bacterial infection.
                                                                               Gaps
                                                                                                                                                                                                                                                                              Bacterial infection; Pseudomonas aeruginosa infection; antibacterial.
animals and cells. This sequence corresponds to one of the urinary specific proteins of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABO84196 represent P. aeruginosa polypeptides of the invention. No sequence data for this patent did not form part of the printed specification but was obtained in electronic format from USPTO at segdata.uspto.gov/sequence.html
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                                                       Length 600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87.9%; Score 29; DB 7; Length 177; 100.0%; Pred. No. 1.5e+02; ive 0; Mismatches 0; Indels
                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bush D;
                                                                               ö
                                                       Score 33; DB 7;
Pred. No. 67;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 31771; 455pp; English.
                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Deloughery C,
                                                                                                                                                                                                                                                        Pseudomonas aeruginosa polypeptide #15200.
                                                                                                                                                                                   ABO83025 standard; protein; 177 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENO-) GENOME THERAPEUTICS CORP.
                                                                              ö
                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                         99US-00252991
                                                                                                                                                                                                                                                                                                                                                                                              98US-0074788P.
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                                                                                                                                                                                                                                 (first entry)
                                                                               Conservative
                                                                                                                                                                                                                                                                                                      Pseudomonas aeruginosa.
                                          Query Match
Best Local Similarity
T; Conserva
                                                                                                                           444 QRANLRA 450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-615309/58.
N-PSDB; ABD16596.
                                                                                                    1 ORANLRA 7
                                 Sequence 600 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rubenfield MJ,
                                                                                                                                                                                                                                                                                                                                                                         .8-FEB-1999;
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27-JUL-1998;
                                                                                                                                                                                                                                                                                                                           US6551795-B1
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                                                                                                                                                                                                                                                                                                                                                  22-APR-2003.
                                                                                                                                                                                                          ABO83025;
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                                                                                                                                                             RESULT 9
                                                                                                                                                                          ABO83025
SSXS
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Gaps

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Best Local Similarity 100. Matches 6; Conservative

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New immunogenic fragments of Leishmania antigens and related nucleic acid, vectors and host cells - are useful for diagnosis, prevention and treatment of leishmaniasis, also to induce production of interleukin-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                  Leishmania antigen; immune response; infection detection; therapy; humoral response induction; callular response induction; cancer; interleukin-12 production.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     87.9%; Score 29; DB 2; Le
100.0%; Pred. No. 4.7e+02;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 13; Page 125-127; 194pp; English.
AAW70232 standard; protein; 510 AA.
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                                                                                                                                                                                                                                Leishmania antigen LcgSP3 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98WO-US003002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97US-00798841.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Leishmania donovani chagasi
                                                                                                                                   (revised)
(first entry)
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nes 6; Conservative
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Leishmania donovani chagasi.
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                                                                                                                                                                                                                                                                                   Probst P;
                                                                                                                                                                                                                        (CORI-) CORIXA CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 QRANLR 6
                                                                                                                                                                                                                                                                                                                                       N-PSDB; AAS96041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 510 AA;
                                     WO200179276-A2
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12-FEB-1997;
27-AUG-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                vaccination.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-AUG-2003
19-AUG-2002
                                                                          25-OCT-2001
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                                                                                                                                                                                                                                                             Reed SG, C
Coler RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABG60884;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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셤
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         part of Leishmania antigen. Compositions containing sequences of the invention and other Leishmania antigen related polypeptides are useful for preventing, treating and detecting (in delayed-type hypersensitivity skin tests) leishmaniasis. They can also be used to treat any diseases responsive to interleukin-12 stimulation, including bacterial, viral and protozoal infections and cancer. Sequences of the invention are useful as vaccines. The present sequence is Leishmania chagasi LcgSP3 antigenic protein. (Updated on 29-AUG-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Leishmaniasis; Leishmania antigen; immunostimulant; protozoacide; Ldp23; interleukin-15; Lbhsp83; M15; Lt-1; LbeIF4A; Lmspla; Lmsp9a; MAPS-1A; LmSP81; LmgSP3; LmgSP5; LmgSP5; LmgSP9; LmgSP9; LcgSP1; LcgSP1; LcgSP9; LcgSP9;
                                                                                                           Immunogen; Leishmania antigen; therapy; delayed-type hypersensitivity; leishmaniasis; vaccine; interleukin-12 stimulation; cancer; protozoacide; virucide; bactericide; cytostatic; immune response; LcgSP3 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                polypeptide comprising immunogenic part of Leishmania antigen, useful treatment, prevention and diagnosis of leishmaniasis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to novel proteins comprising immunogenic
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bhatia A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  87.9%; Score 29; DB 5; Length 510; 100.0%; Pred. No. 4.7e+02; ive 0; Mismatches 0; Indels
                                                                        Leishmania chagasi LcgSP3 antigenic protein.
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                                                                                                                                                                                                                                                                                                                                    95US-00533669.
97US-00798841.
97US-00920609.
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                                                                                                                                                                                       Leishmania donovani chagasi.
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Query Match
Best Local Similarity 100.0%
Best Local Similarity
6; Conservative
                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Campos-Neto A,
                   (revised)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (revised)
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N-PSDB; AAD40304.
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                                                                                                                                                                                                                        US6375955-B1
                                                                                                                                                                                                                                                                                                  12-FEB-1998;
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27-AUG-1997;
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               29-AUG-2003
22-OCT-2002
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26-FEB-2002
                                                                                                                                                                                                                                                             23-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Probst P;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     SG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Reed
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The invention relates to polypeptides comprising an immunogenic part of a Leishmania antigen. The Leishmania polypeptides and their associated DNA sequences, epitopes and fusion proteins are used in the production of compositions used for inducing a protective immune response against leishmaniasis, for prevention and treatment of the disease. The compositions can also be used generally to treat diseases that respond to interleukin-15 stimulation. In addition, the products may contain an immunostimulant. Sequences AAU71805-AAU71862 represent Leishmania antigens and antigenic peptides of the invention. (Updated on 29-AUG-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and
                                                                                                                                                                                                                                                                      Webb JR, Dillon DC, Skeiky YAW, Bhatia A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated Leishmania antigens, useful for prevention, treatment
diagnosis of leishmaniasis, also related nucleic acids for genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ·
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 510;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Pred. No. 4.7e+02; ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87.9%; Score 29; DB 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 1; Page 143-144; 193pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABG60884 standard; protein; 510 AA.
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97US-00798841.
97US-00920609.
                                                            14-APR-2000; 2000US-00551974.
05-MAY-2000; 2000US-00565501.
14-AUG-2000; 2000US-00639206.
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05-APR-2001; 2001WO-US011254
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                                                                                                                                                                                                                                                                          Campos-Neto A,
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us-10-080-100-46.rag

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This invention describes a novel polypeptide containing an immunogenic portion of a Leishmania antigen or its variant which has antiparasitic and immunostimulant activity. The compositions and methods of the present invention are useful for preventing, treating and detecting leishmaniasis, and stimulating immune responses in patients against leishmaniasis. The polypeptides and the polynucleotides encoding them can be used for gene therapy, in vaccines or as interleukin-12 agonists. The compositions and methods of the present invention, as compared to prior art, are more improved therapeutic modalities in the diagnosis, prevention and treatment of leishmaniasis. (Updated on 29-AUG-2003 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Antigen; protozoacide; antibacterial; virucide; cytostatic; immunostimulant; leishmaniasis; Leishmania infection; immune response; interleukin-2 stimulation; cancer; bacterial infection; viral infection;
                                                                                                                                                                                                                                                                        New polypeptide containing at least an immunogenic portion of one or moneishmania antigens or their variants, useful for preventing, treating and detecting leishmaniasis, and stimulating immune responses in
                                                                                                                        Campos-Neto A, Webb JR, Dillon DC, Skeiky YAW, Bhatia A;
Probst P, Brannon M;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 29; DB 5; Le
Pred. No. 4.7e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                    Claim 1; Page 60-61; 163pp; English.
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100.0%;
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97US-00798841.
97US-00920609.
98US-00022765.
98US-00183861.
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2000US-00639206
2001US-00874923
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standardise OS field)
                                                                                                                                                                                                     WPI: 2002-635457/68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   114 ORANLR 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protozoan infection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
     BHATIA A.
COLER R N.
PROBST P.
                                                                               BRANNON M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ORANLR 6
                                                                                                                                                                                                                               N-PSDB; AAF88543.
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14-AUG-2000;
04-JUN-2001;
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12-FEB-1997;
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12-FEB-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14-NOV-2002
                                                                                                                           Reed SG, C
Coler RN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADB78813;
  (BHAT/) 1
(COLE/) (PROB/) 1
(BRAN/) 1
                                                                                                                                                                                                                                                                                                                                                   patients
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                                                                                                         comprising administering to the patient a vaccine containing a non-
specific immune response enhancer and a polypeptide having un immunogenic
specific immune response enhancer and a polypeptide having an immunogenic
specific immune response on a polypeptide having two contiguous
epitopes of a Leishmania antigen. The method is useful for stimulating an
immune response, in particular a Thi response or interleukin-12 (IL-12)
production in a patient, for preventing and treating Leishmaniasis.
Sequences ABG60864-ABG60896 and ABG60903-ABG60910 represent Leishmania
antigenic polypeptides and peptide fragments of the invention. (Updated
on 29-AUG-2003 to standardise OS field)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                     Stimulating immune responses in a patient for preventing or treating Leishmaniasis, by administering a vaccine comprising a polypeptide comprising an immunogenic portion or epitope of Leishmania antigen.
                                                                                                                                                                                                                                                                                                                                                                     The invention relates to stimulating an immune response in a patient
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antigen; immunogenic; antiparasitic; immunostimulant; leishmaniasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                    Skeiky YAW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 87.9%; Score 29; DB 5; Length 510; 100.0%; Pred. No. 4.7e+02; ive 0; Mismatches 0; Indels
                                                                                                 Dillon DC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gene therapy; vaccine; interleukin-12 agonist
                                                                                                                                                                                                                                                                                                                       Claim 1; Col 123-126; 114pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 L. chagasi LcgSP3 antigen SEQ ID 50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAB71282 standard; protein; 510 AA
                                                                                                    Webb JR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22-SEP-1995; 95US-00533669.
12-FEB-1997; 97US-00798841.
27-AUG-1997; 97US-00920609.
12-FEB-1998; 98US-00027765.
30-OCT-1998; 98US-00183861.
14-APR-2000; 2000US-00551974.
05-MAY-2000; 2000US-0055501.
98US-00022765.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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                                                                                                 Campos-Neto A,
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CAMPOS-NETO A.
WEBB J R.
DILLON D C.
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THERED S G.

PA (CAMPA) CAMPOS-NETO A.

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PI Reed SG, Campos-Neto A, Webb JR, Dillon DC;

N-PSDB; ADB78808.

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Novel isolated polypeptide useful for preventing or treating leishmaniasing, comprises an immunogenic portion of a Leishmania antigen or its variant.

The invention relates to an isolated polypeptide comprising an electron of a Leishmania antigen or its variant.

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Claim 1; Page 61-62; 183pp; English.

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The invention relates to an isolated polypeptide comprising an isolated polypeptide comprises to an isolated polypeptide comprise to antigenic epitopes, fusion protein comprising at least two contiguous antigenic epitopes, fusion protein comprising the antigens or fusion protein and a physical a recombinant expession or vector comprising the polymentectical or immunogenic) comprising the polymentectical or immunogenic or carrier. The composition (pharmaceutical or immunogenic) comprising the antigen or fusion protein and a physicalogically acceptable carrier. The composition mand effecting an immune response on the patient with the composition and actecting an immune response in a patient or patient or for treating a patient with a disease responsive to patient, or treating a patient with a disease responsive to contection in a patient with a disease responsive to ninterleutin (III)-2 stimulating a cellular and/or humoral immune response in a patient, or for treating a patient with a disease responsive to ninterleutin (III)-2 stimulating a patient with a disease responsive to contection in a bacterial, viral or protozoan infection. The antigen is represented by the present sequence in a represented a Leishmania antigen (or fragment). The present sequence in a patient with a patient with a patient with the present sequence in a patient patient or treating leishmaniasis. The present sequence in a patient patient with the patient pati
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